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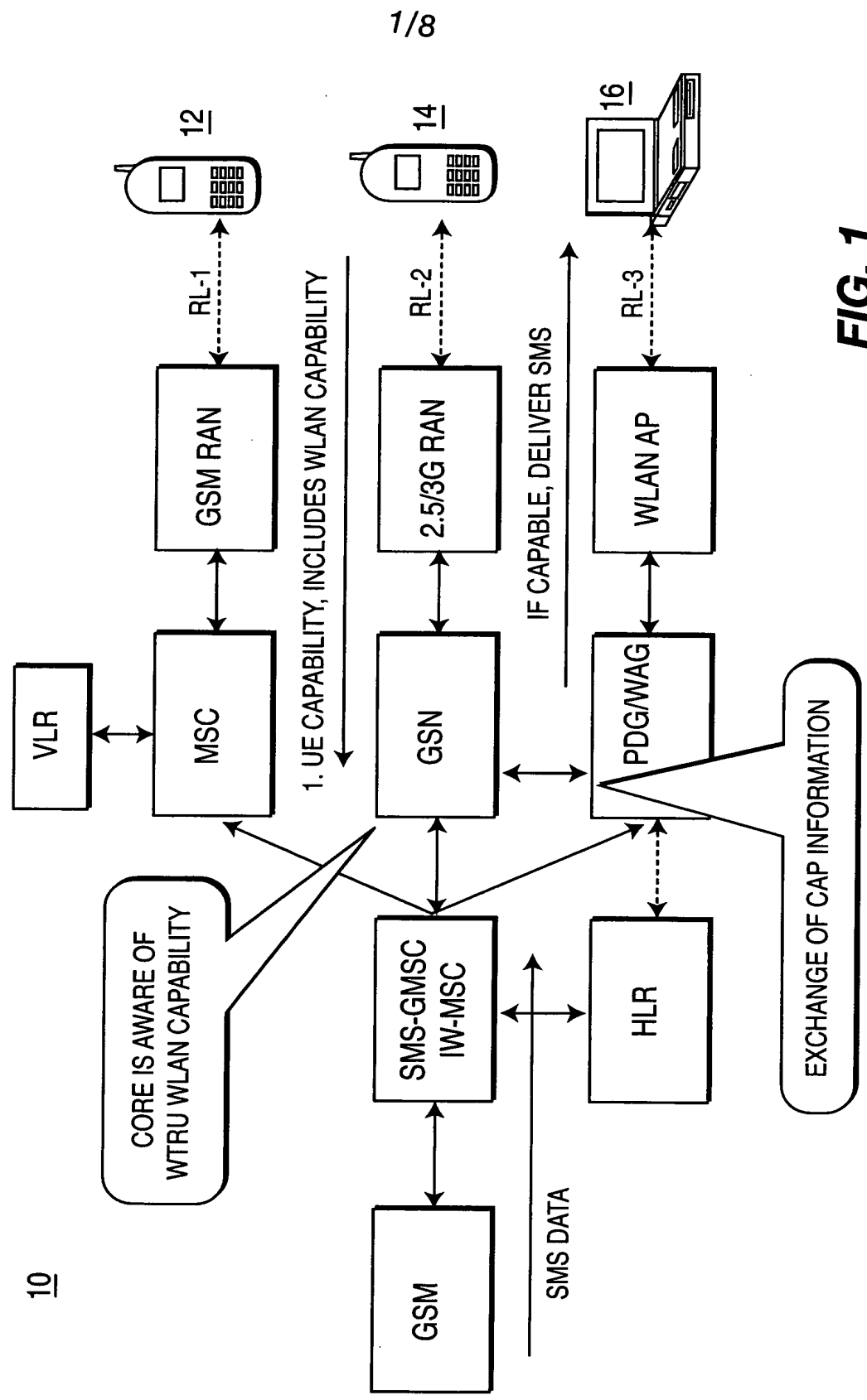


FIG. 1



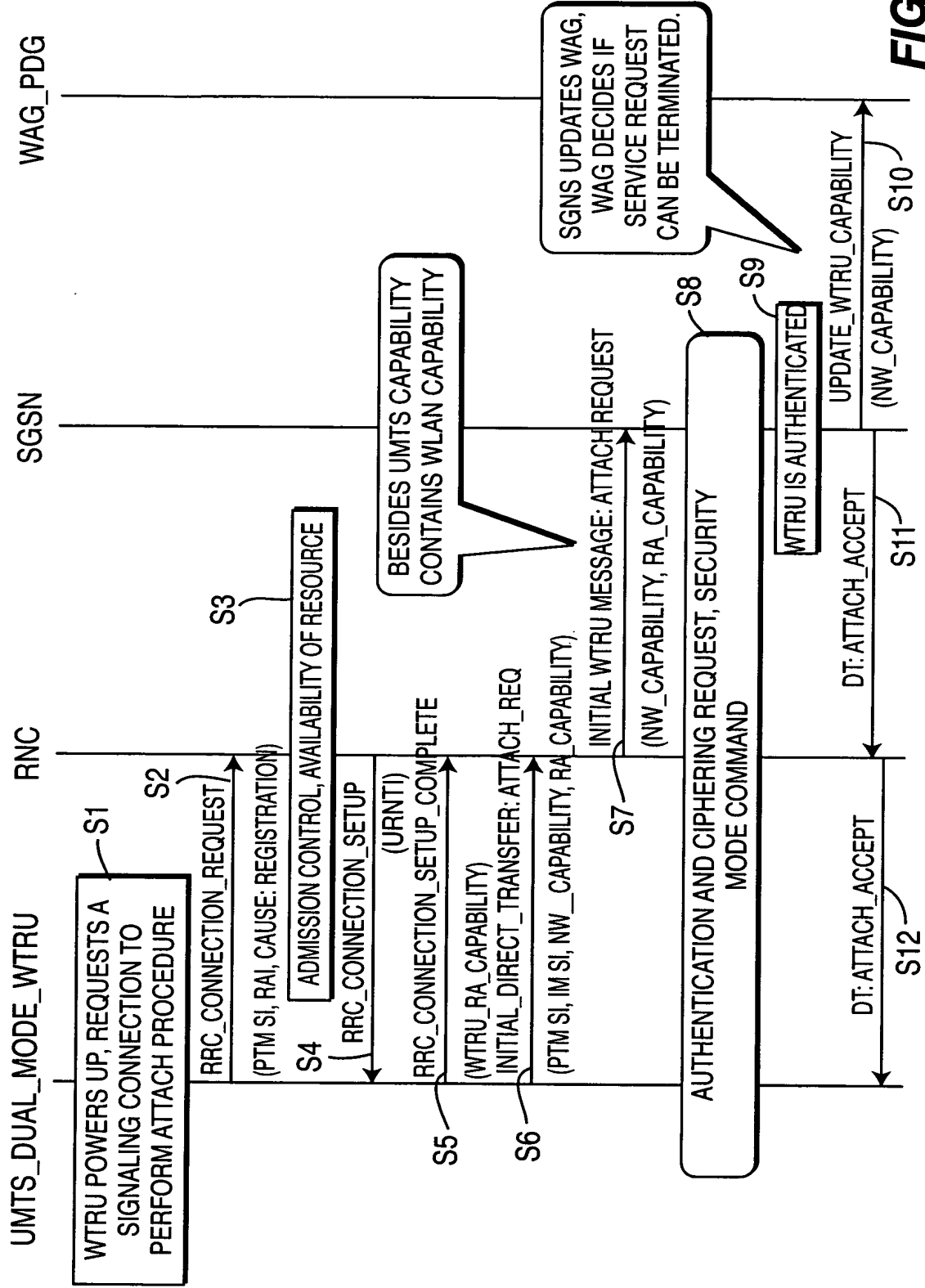


FIG. 2



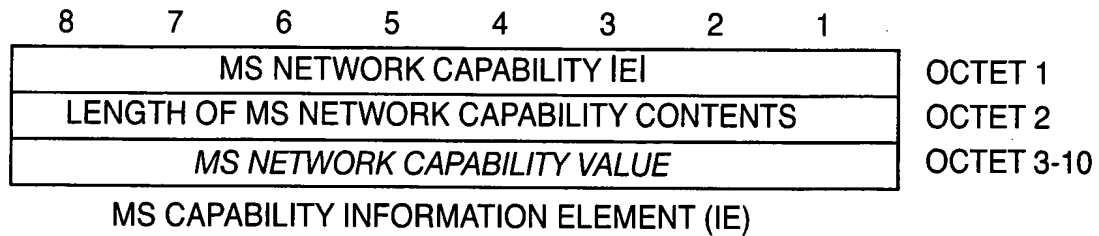


FIG. 3

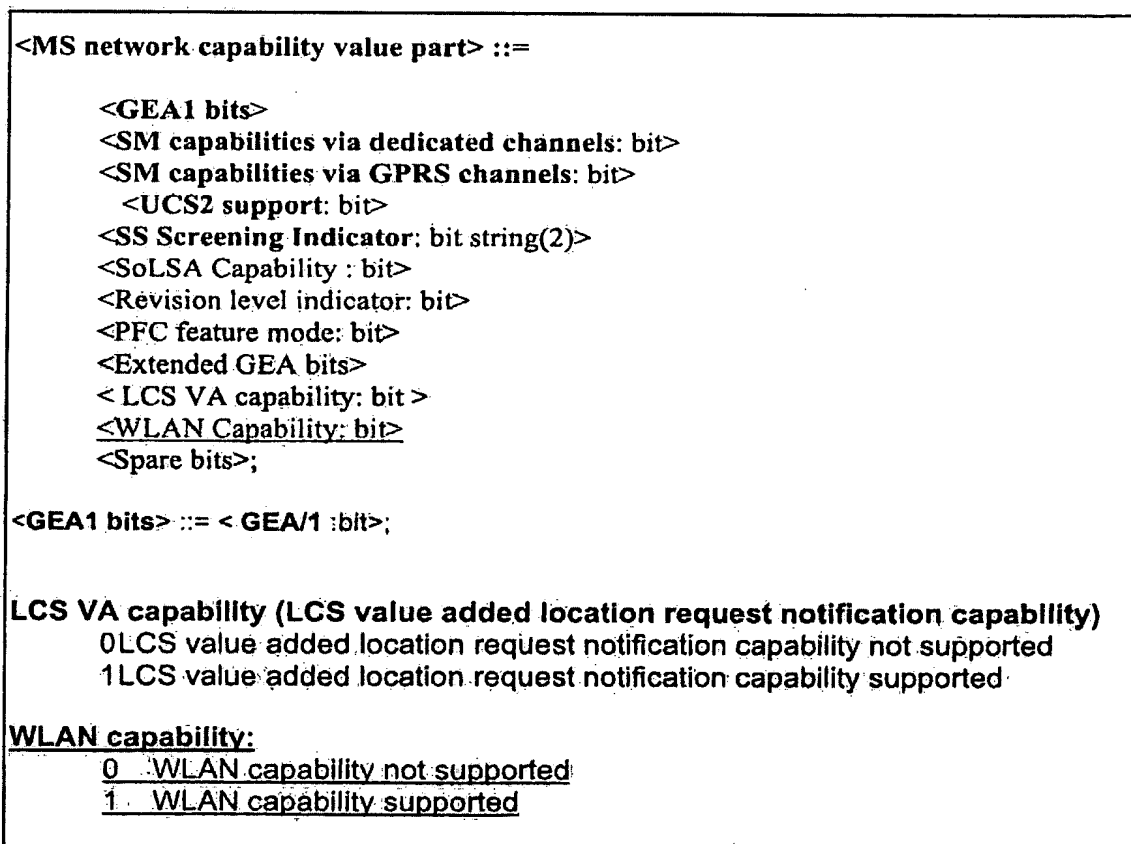


FIG. 4A



NETWORK CAPABILITY IE

<ul style="list-style-type: none">• EXISTING• MS NETWORK CAPABILITY VALUE [24.008] :=<GEA1 BITS><ol style="list-style-type: none">1. <SM CAPABILITIES VIA DEDICATED CHANNELS: BIT>2. <SM CAPABILITIES VIA GPRS CHANNELS: BIT>3. <UCS2 SUPPORT: BIT>4. <SS SCREENING INDICATOR: BIT STRING(2)>5. <SoLSA CAPABILITY: BIT>6. <REVISION LEVEL INDICATOR: BIT><ul style="list-style-type: none">• 7. <PFC FEATURE MODE: BIT>• 8. <EXTENDED GEA BITS>• 9. <LCS VA CAPABILITY: BIT>• 10.<SPARE BITS>;	<ul style="list-style-type: none">• NEW• MS NETWORK CAPABILITY VALUE [24.008] :=<GEA1 BITS><ol style="list-style-type: none">1. <SM CAPABILITIES VIA DEDICATED CHANNELS: BIT>2. <SM CAPABILITIES VIA GPRS CHANNELS: BIT>4. <SMS CAPABILITY VIA WLAN: BITS5. <SMS (TEXT ONLY, TEXT & ANIMATION), IMS, MMS, ETC.>6. <UCS2 SUPPORT: BIT>7. <SS SCREENING INDICATOR: BIT STRING(2)>8. <SoLSA CAPABILITY: BIT>9. <REVISION LEVEL INDICATOR: BIT>
---	--

FIG. 4



RADIO ACCESS CAPABILITY IE

- EXISTING

- <MS RA CAPABILITY

VALUE PART:= [24.008]

1. <ACCESS TECHNOLOGY TYPE>
2. <ACCESS CAPABILITIES : BIT>
3. <UMTS FDD RADIO ACCESS TECHNOLOGY CAPABILITY : BIT>
4. <UMTS 3.84 Mcps TDD RADIO ACCESS TECHNOLOGY CAPABILITY : BIT>
5. <CDMA 2000 RADIO ACCESS TECHNOLOGY CAPABILITY : BIT>
6. <UMTS 1.28 Mcps TDD RADIO ACCESS TECHNOLOGY CAPABILITY : BIT>

- NEW

- <MS RA CAPABILITY VALUE

PART:= [24.008]

1. <ACCESS TECHNOLOGY TYPE>
2. <ACCESS CAPABILITIES : BIT>
3. <UMTS FDD RADIO ACCESS TECHNOLOGY CAPABILITY : BIT>
4. <UMTS 3.84 Mcps TDD RADIO ACCESS TECHNOLOGY CAPABILITY : BIT>
5. < WLAN RADIO ACCESS CAPABILITY : TERMINAL TYPE (PDA, LAPTOP, PHONE), MEMORY SIZE, SCREEN SIZE, PROCESSING POWER, TECHNOLOGY VERSION (802.11, 802.15, 802.16,...ETC.), SERVICE PROFILE (SMS (TEXT ONLY, TEXT & ANIMATION)), MMS, IMS, LOCATION, MBMS,...ETC.>

FIG. 5



FIG. 5A

FIG. 5A1
FIG. 5A2

```
<MS RA capability value part : < MS RA capability value part struct >>
<spare bits>** ; -- available for future enhancements

<MS RA capability value part struct> ::= --recursive structure allows any number of Access technologies
{
    {
        < Access Technology Type: bit (4) > exclude.1111
        < Access capabilities : <Access capabilities struct> > }
    |
    {
        < Access Technology Type: bit (4) == 1111 > -- structure adding Access
        technologies with same capabilities
        < Length : bit (7) > -- length in bits of Additional access technologies
        and spare bits
        { 1 < Additional access technologies: < Additional access technologies struct > > } ** 0
        <spare bits>** } }

{ 0 | 1 <MS RA capability value part struct> } ;

< Additional access technologies struct > ::=
    < Access Technology Type : bit (4) >
    < GMSK Power Class : bit (3) >
    < 8PSK Power Class : bit (2) > ;

< Access capabilities struct > ::=
    < Length : bit (7) > -- length in bits of Content and spare bits
    < Access capabilities : <Content>>
    <spare bits>** ; -- expands to the indicated length
    -- available for future enhancements
```

FIG. 5A1



```

< Content > ::=
< RF Power Capability : bit (3) >
{ 0 | 1 < A5 bits : < A5 bits > > } -- zero means that the same values apply for parameters as in the
immediately preceding Access capabilities field within this IE
< ES IND : bit >
< PS : bit >
< VGCS : bit >
< VBS : bit >
{ 0 | 1 < Multislot capability : Multislot capability struct > } -- zero means that the same values for multislot
parameters as given in an earlier Access capabilities field within this IE apply also here
-- Additions in release 99
{ 0 | 1 < 8PSK Power Capability : bit(2) > } -- '1' also means 8PSK modulation capability in the uplink.
< COMPACT Interference Measurement Capability : bit >
< Revision Level Indicator : bit >
< UMTS FDD Radio Access Technology Capability : bit > -- 3G RAT
< UMTS 3.84 Mcps TDD Radio Access Technology Capability : bit > -- 3G RAT
< CDMA 2000 Radio Access Technology Capability : bit > -- 3G RAT
-- Additions in release 4
< UMTS 1.28 Mcps TDD Radio Access Technology Capability : bit > -- 3G RAT
< GERAN Feature Package 1 : bit >
{ 0 | 1 < Extended DTM GPRS Multi Slot Class : bit(2) > }
< Extended DTM EGPRS Multi Slot Class : bit(2) > }
< Modulation based multislot class support : bit >
-- Additions in release 5
{ 0 | 1 < High Multislot Capability : bit(2) > }
< GERAN In Mode Capability : bit >
{ 0 | 1 < GSMK_MULTISLOT_POWER_PROFILE : bit (2) > }
< 8-PSK_MULTISLOT_POWER_PROFILE : bit (2) > }
-- Additions in release 6
< WLAN 802.xx Radio Access Technology Capability : bit(3) >

```

FIG. 5A2

DTM GPRS Multi Slot Class (2 bit field)	
This field indicates the DTM GPRS multislot capabilities of the MS. It is coded as follows:	
Bits	
2:1	
0 0	Unused. If received, the network shall interpret this as '01'
0 1	Multislot class 5 supported
1 0	Multislot class 9 supported
1 1	Multislot class 11 supported
.....	
UMTS FDD Radio Access Technology Capability (1 bit field)	
Bit	
0	UMTS FDD not supported
1	UMTS FDD supported
UMTS 3.84 Mcps TDD Radio Access Technology Capability (1 bit field)	
Bit	
0	UMTS 3.84 Mcps TDD not supported
1	UMTS 3.84 Mcps TDD supported
CDMA 2000 Radio Access Technology Capability (1 bit field)	
Bit	
0	CDMA 2000 not supported
1	CDMA 2000 supported
UMTS 1.28 Mcps TDD Radio Access Technology Capability (1 bit field)	
Bit	
0	UMTS 1.28 Mcps TDD not supported
1	UMTS 1.28 Mcps TDD supported
WLAN 802 Radio Access Technology Capability (3 bit field)	
Bits	
000	WLAN 802.xx not supported
001	WLAN 802.11b supported
010	WLAN 802.11a supported
011	WLAN 802.16 supported

GERAN Feature Package 1 (1 bit field)	
This field indicates whether the MS supports the GERAN Feature Package 1 (see 3GPP TS 44.060). It is coded as follows:	
0	
	GERAN feature package 1 not supported.
1	
	GERAN feature package 1 supported.

FIG. 5B